

Figure 1

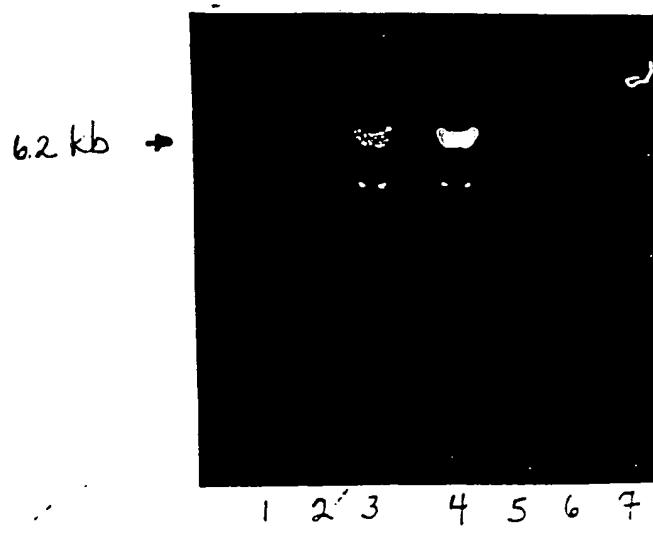


Figure 2

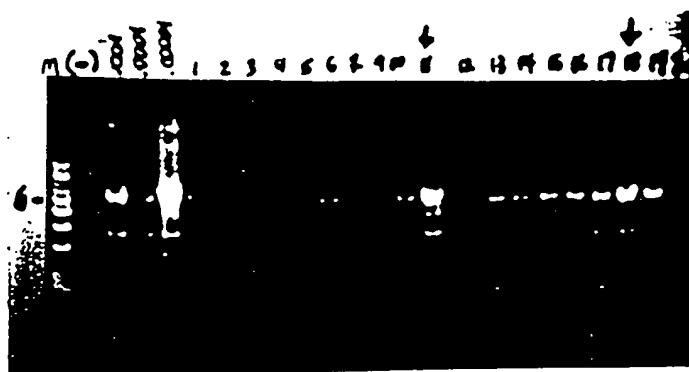


Figure 3

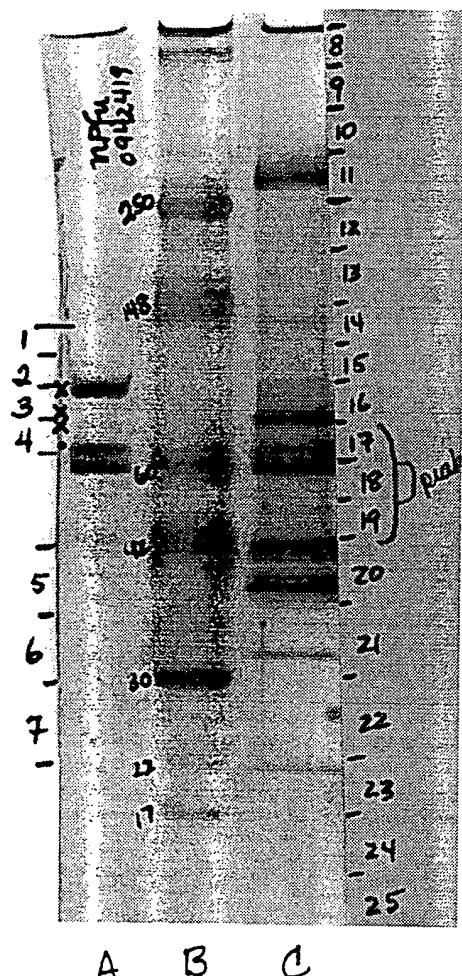


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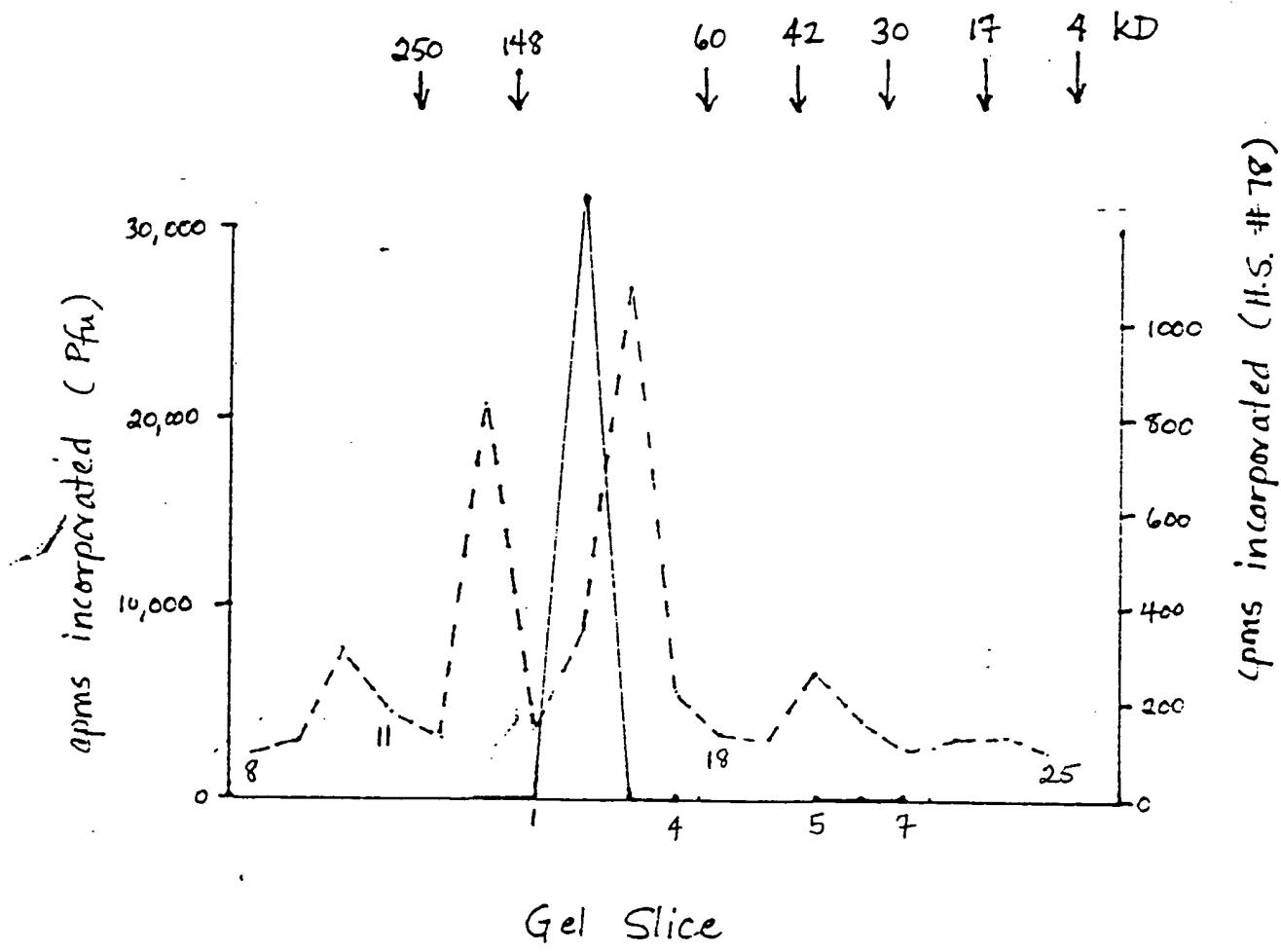


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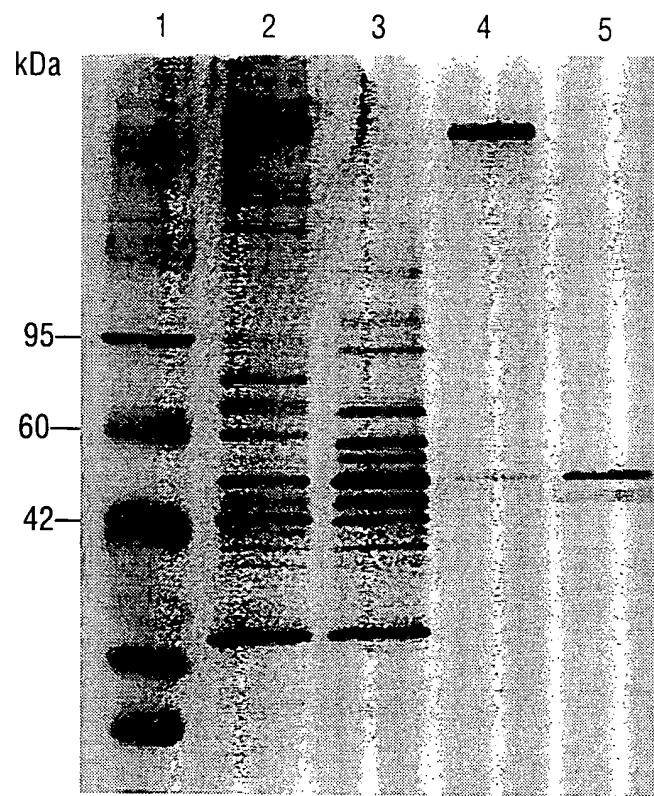


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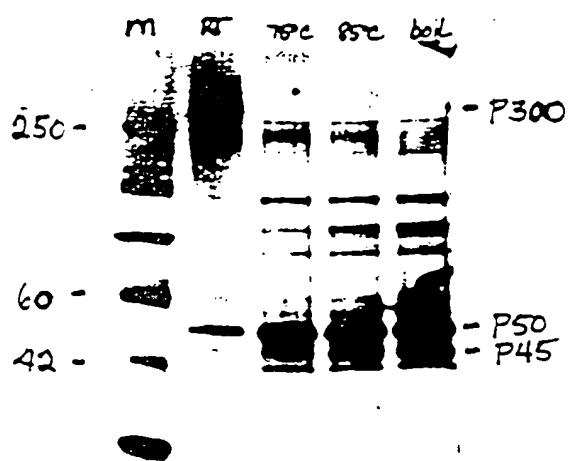


Figure 7

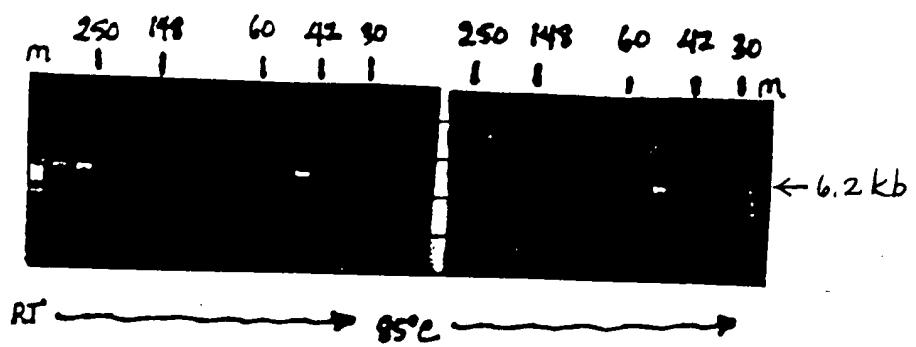


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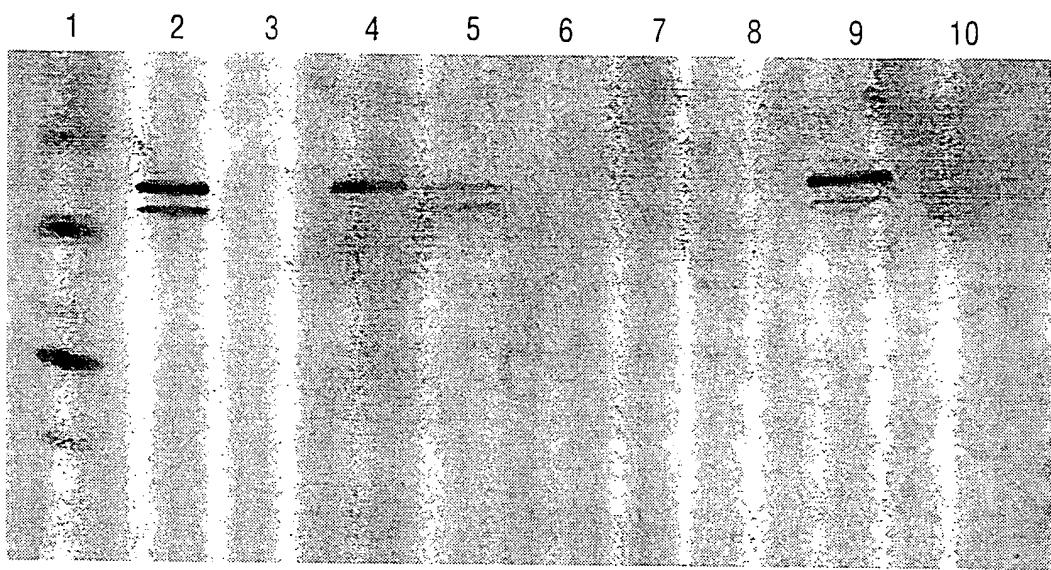


Figure 9

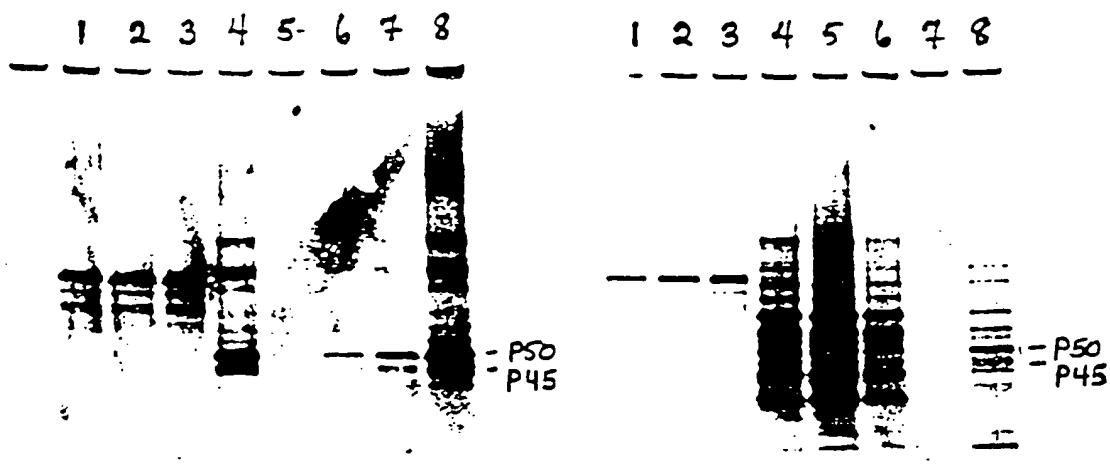


Figure 10

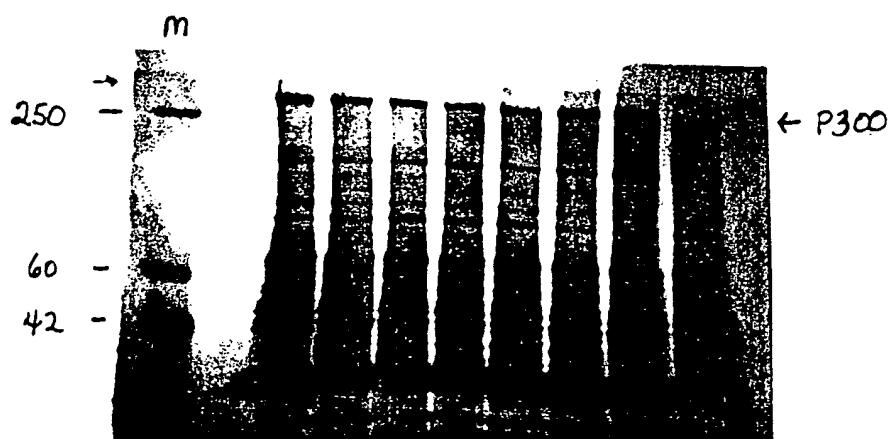
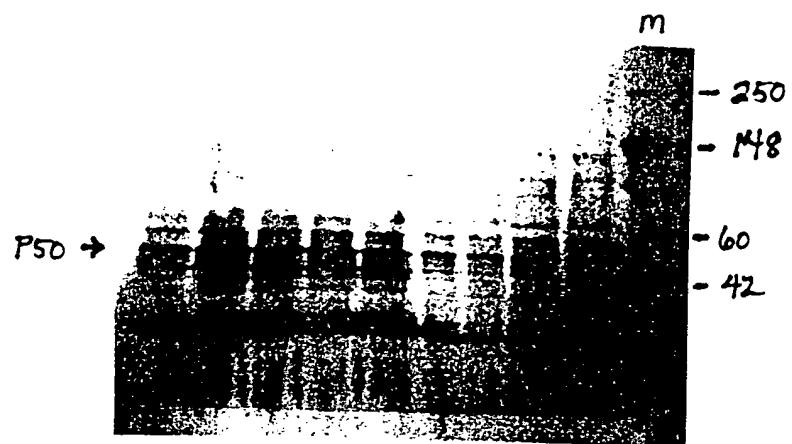


Figure 11

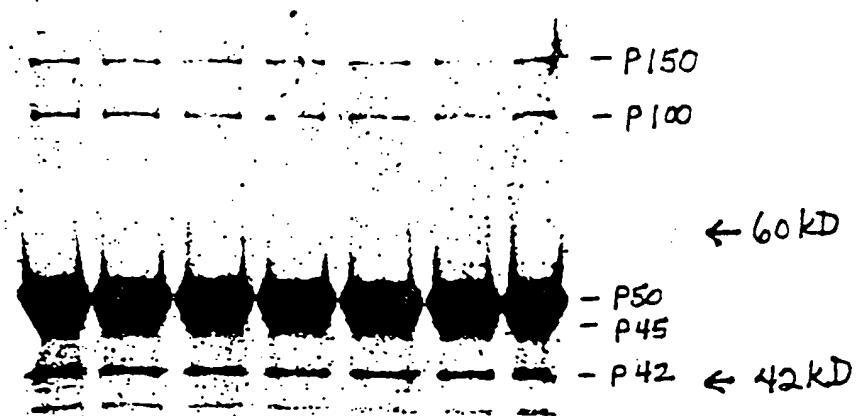


Figure 12

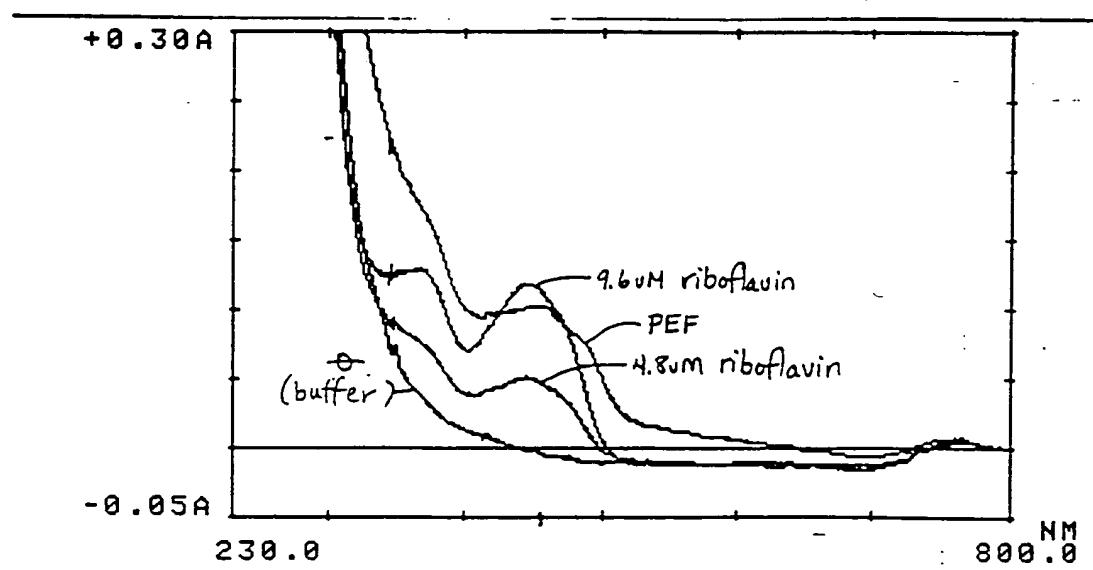


Figure 13

5.2 Kb On/Off Assay

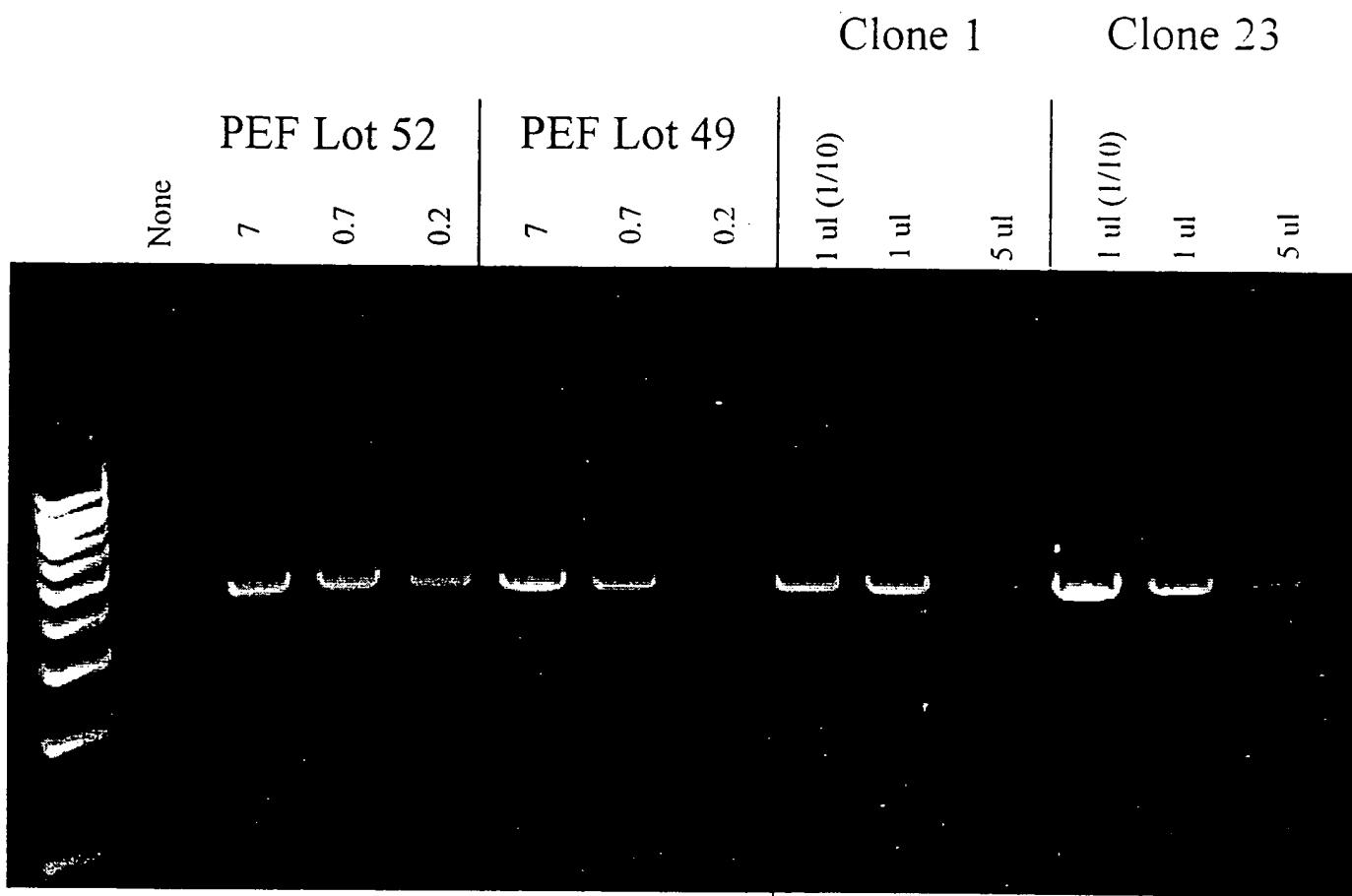


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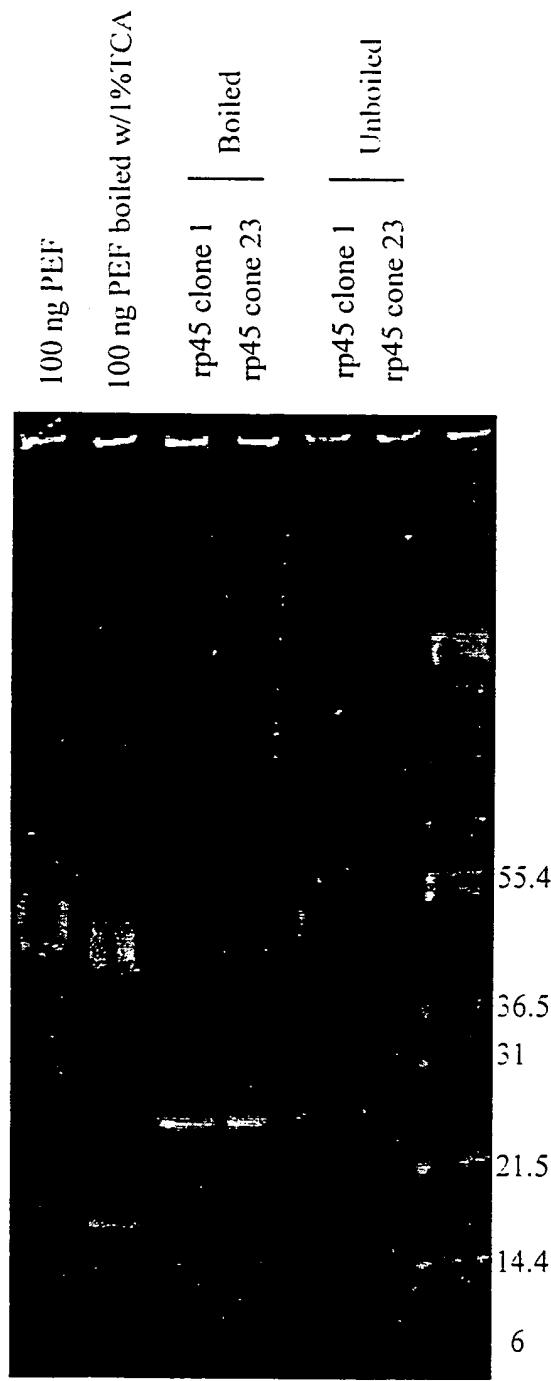


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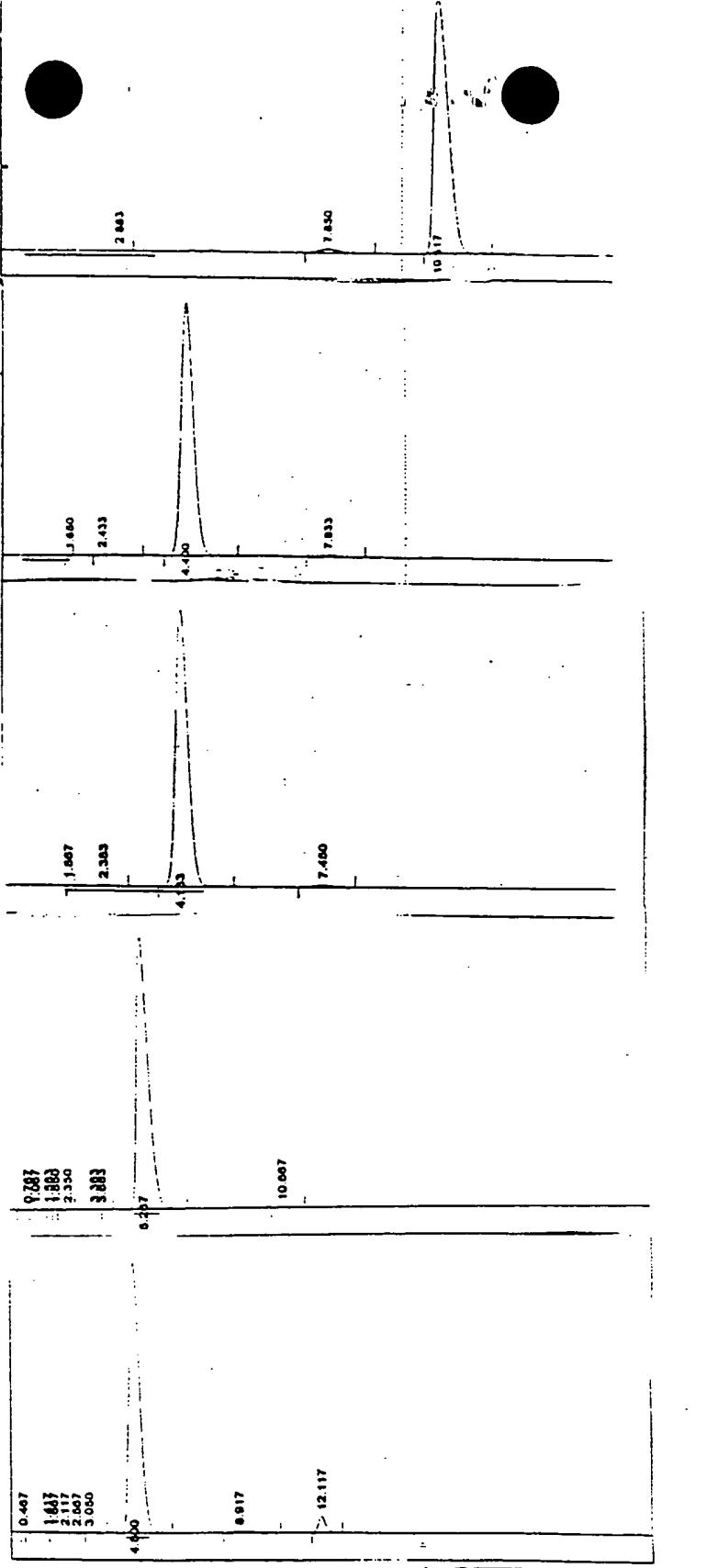


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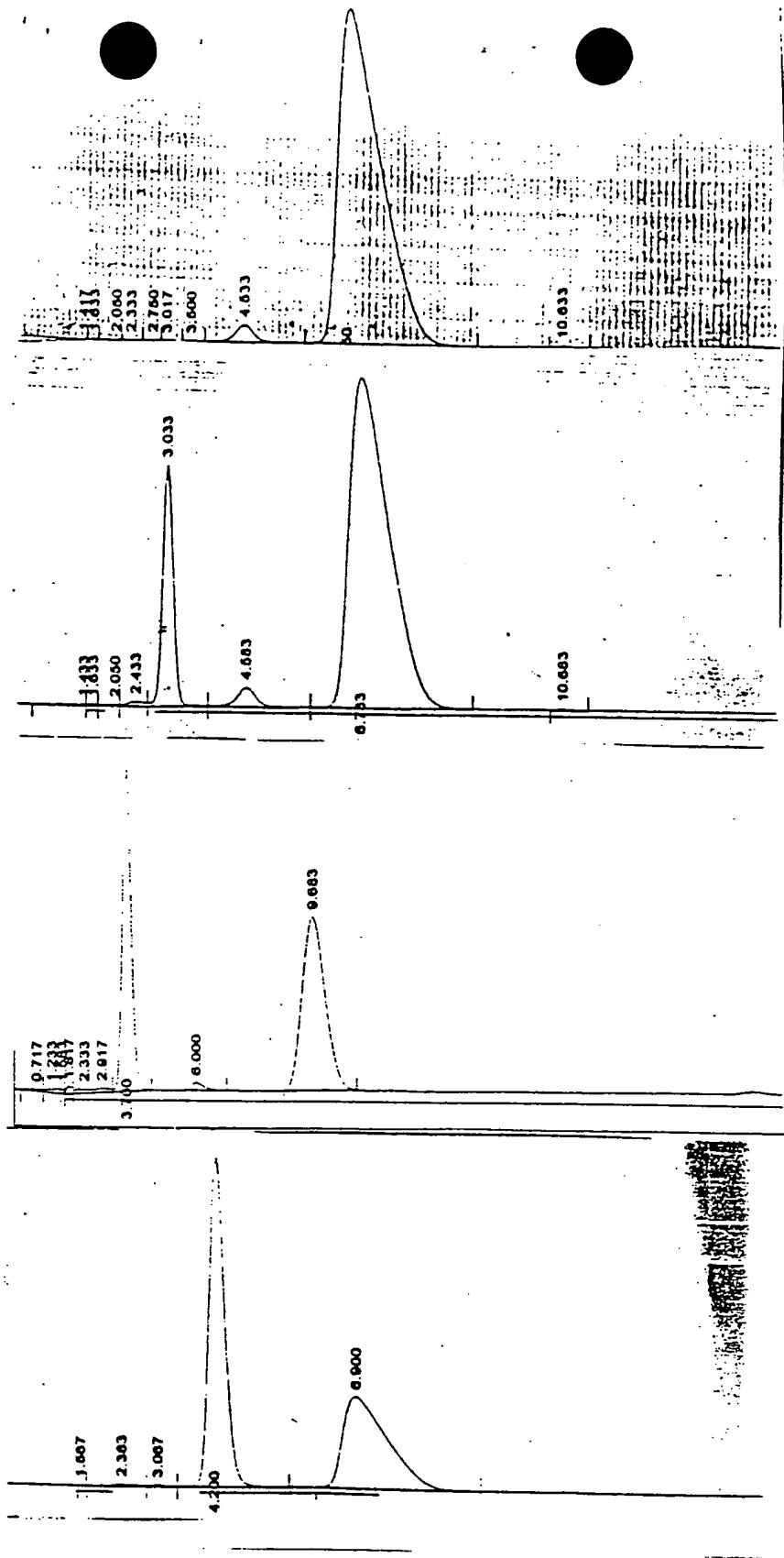


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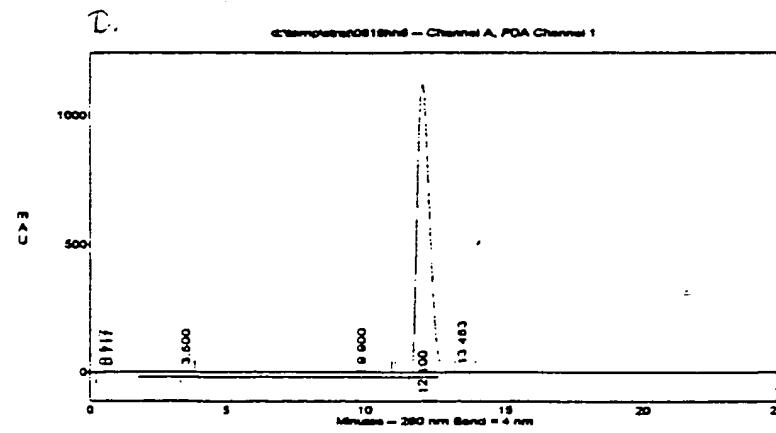
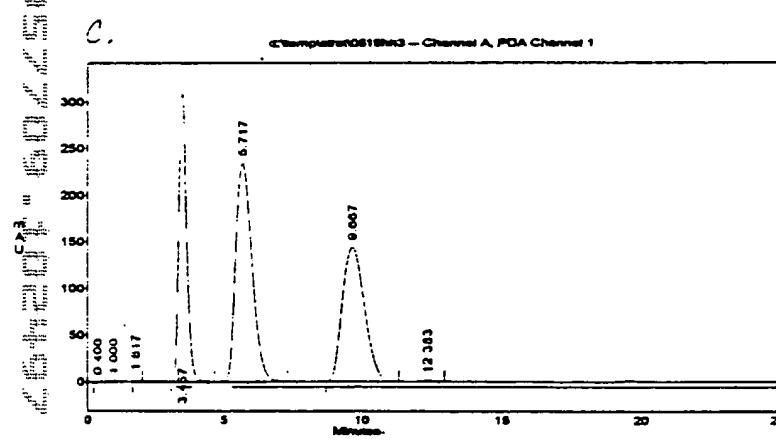
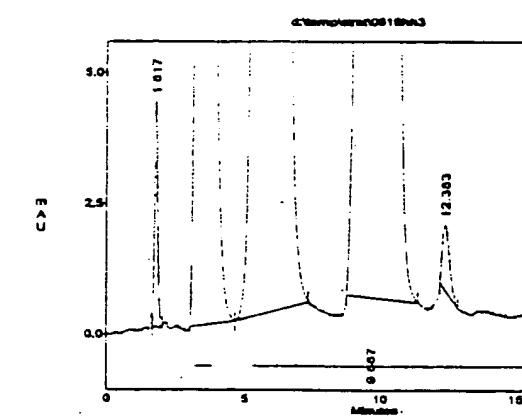
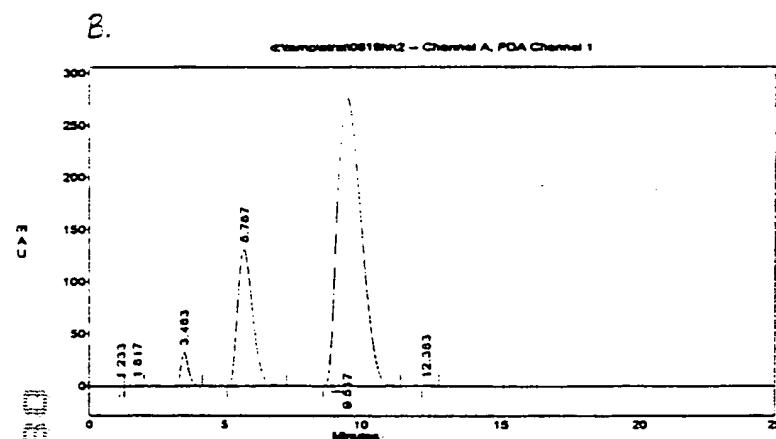
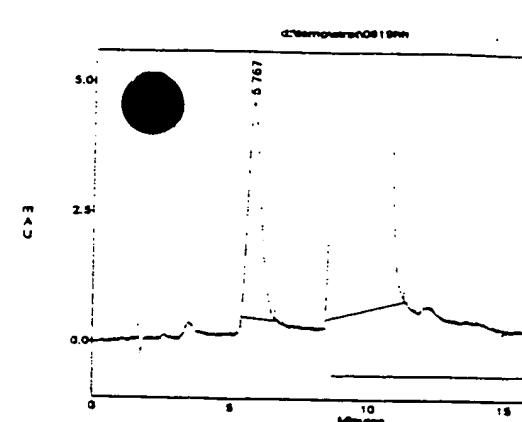
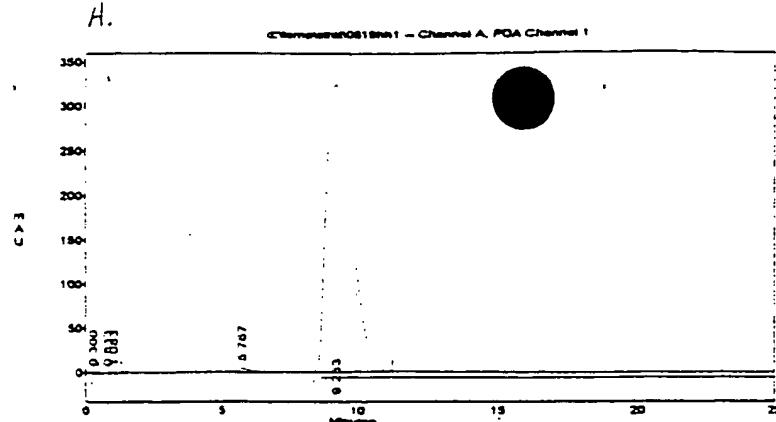


Figure 18

Overlaid Traces: Normalized

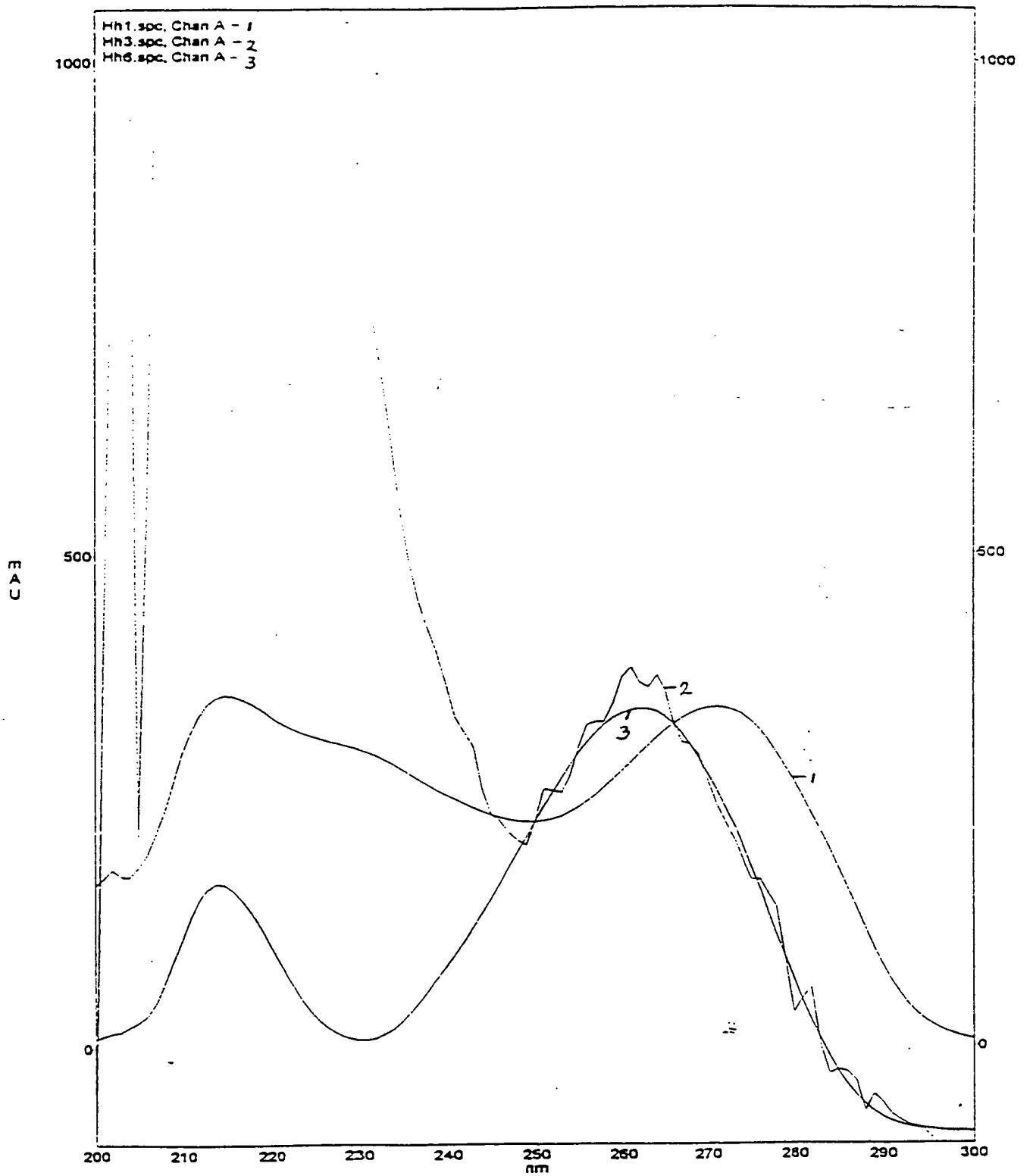


Figure 19

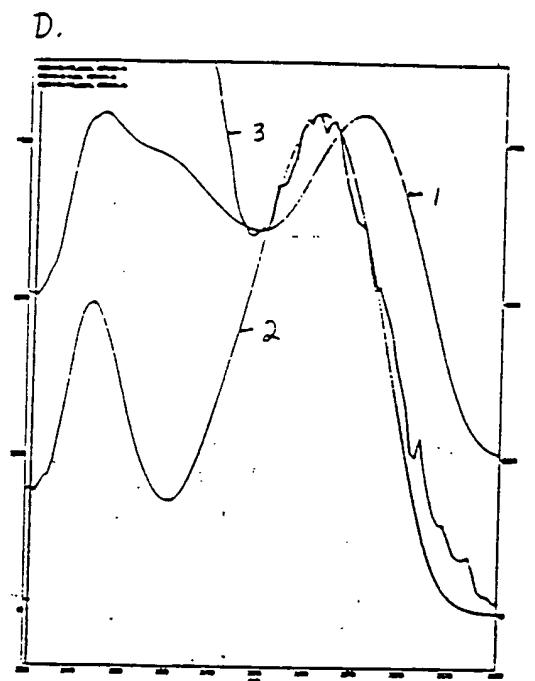
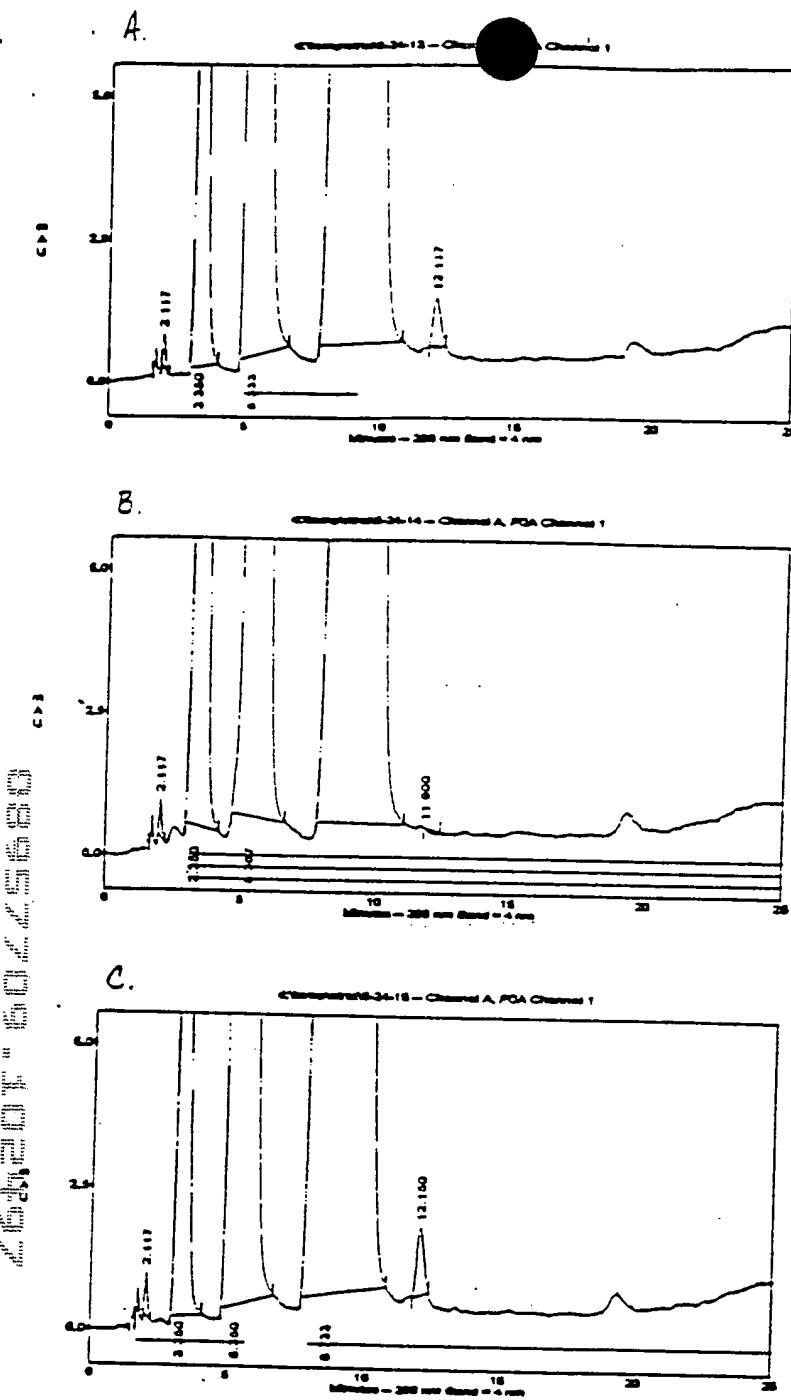


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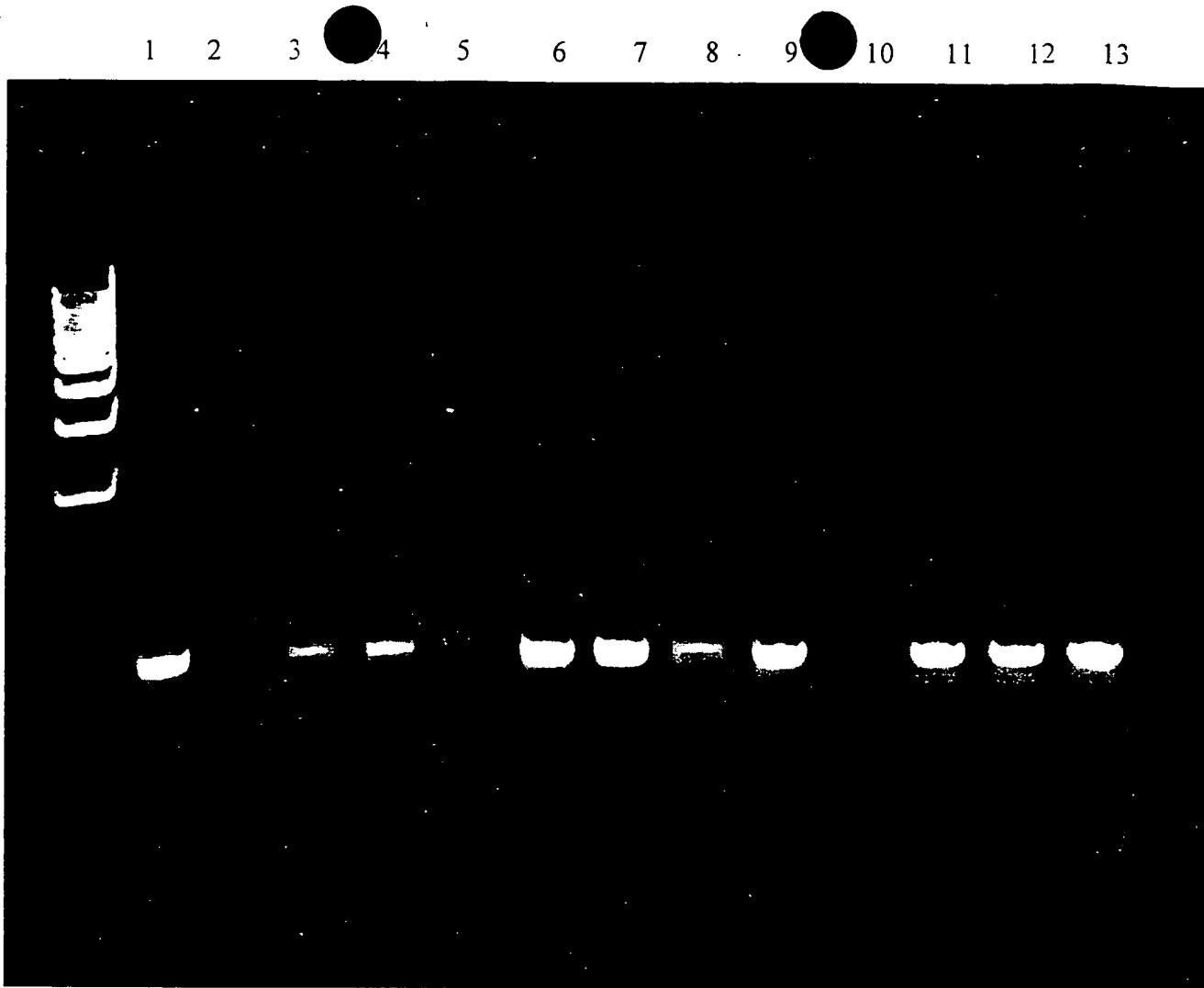


Figure 21

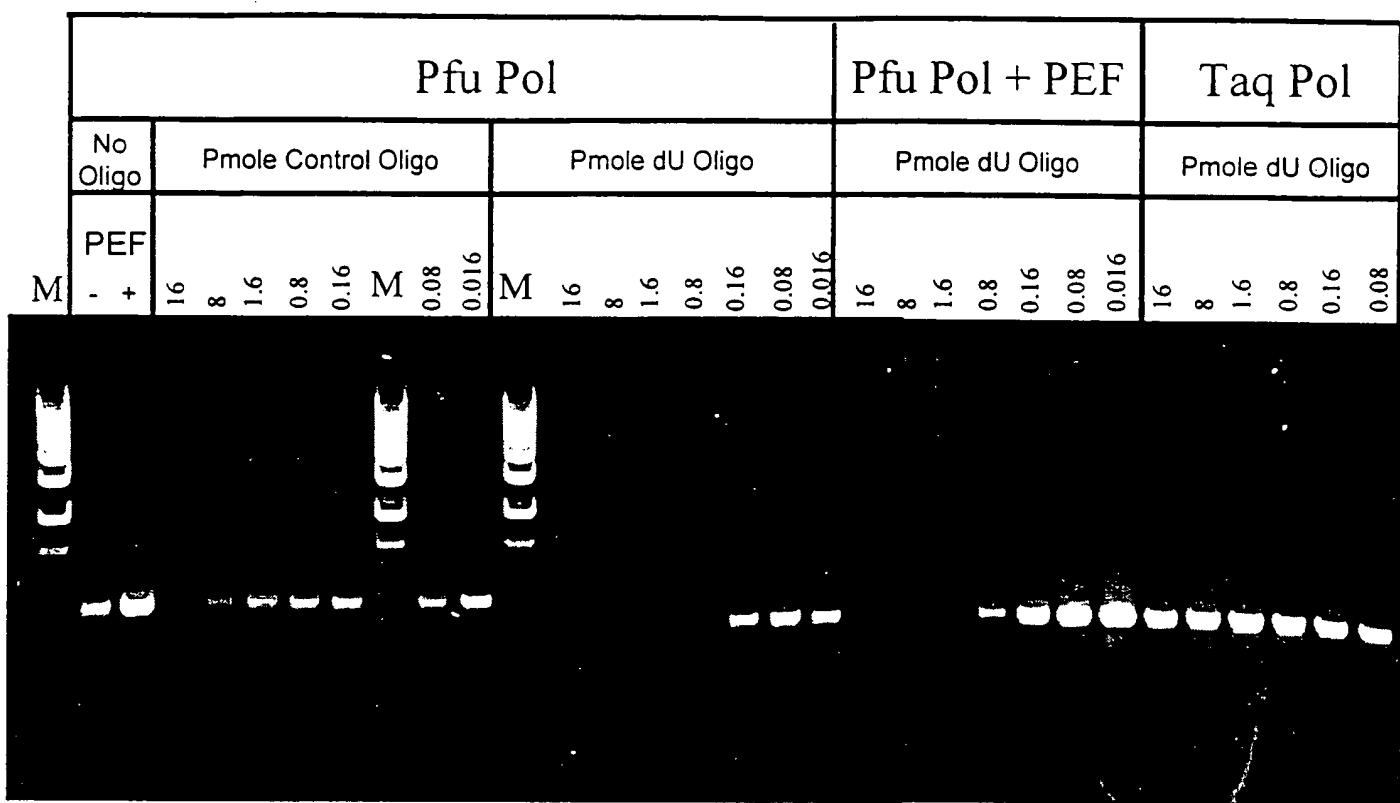


Figure 22

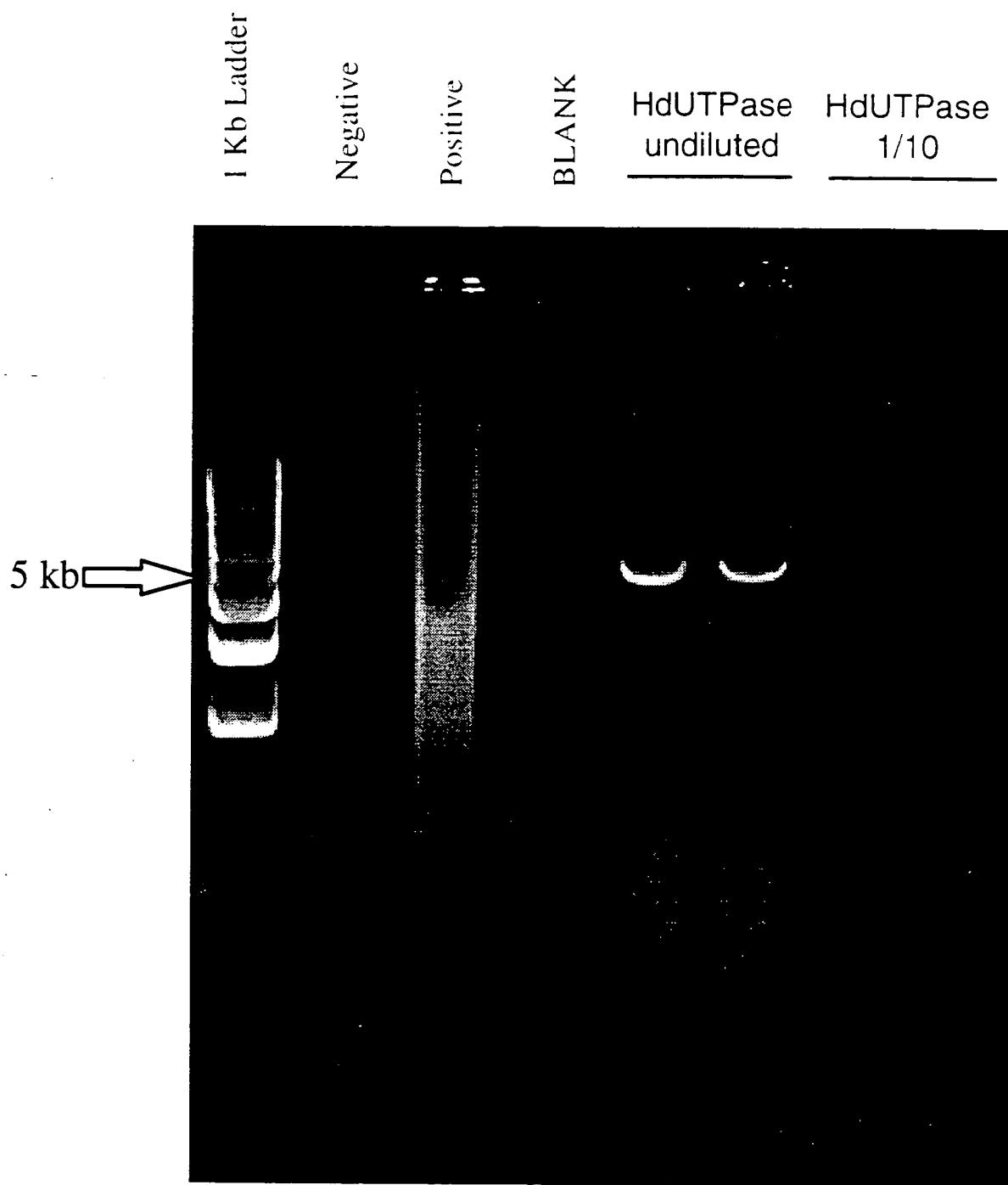


Figure 23

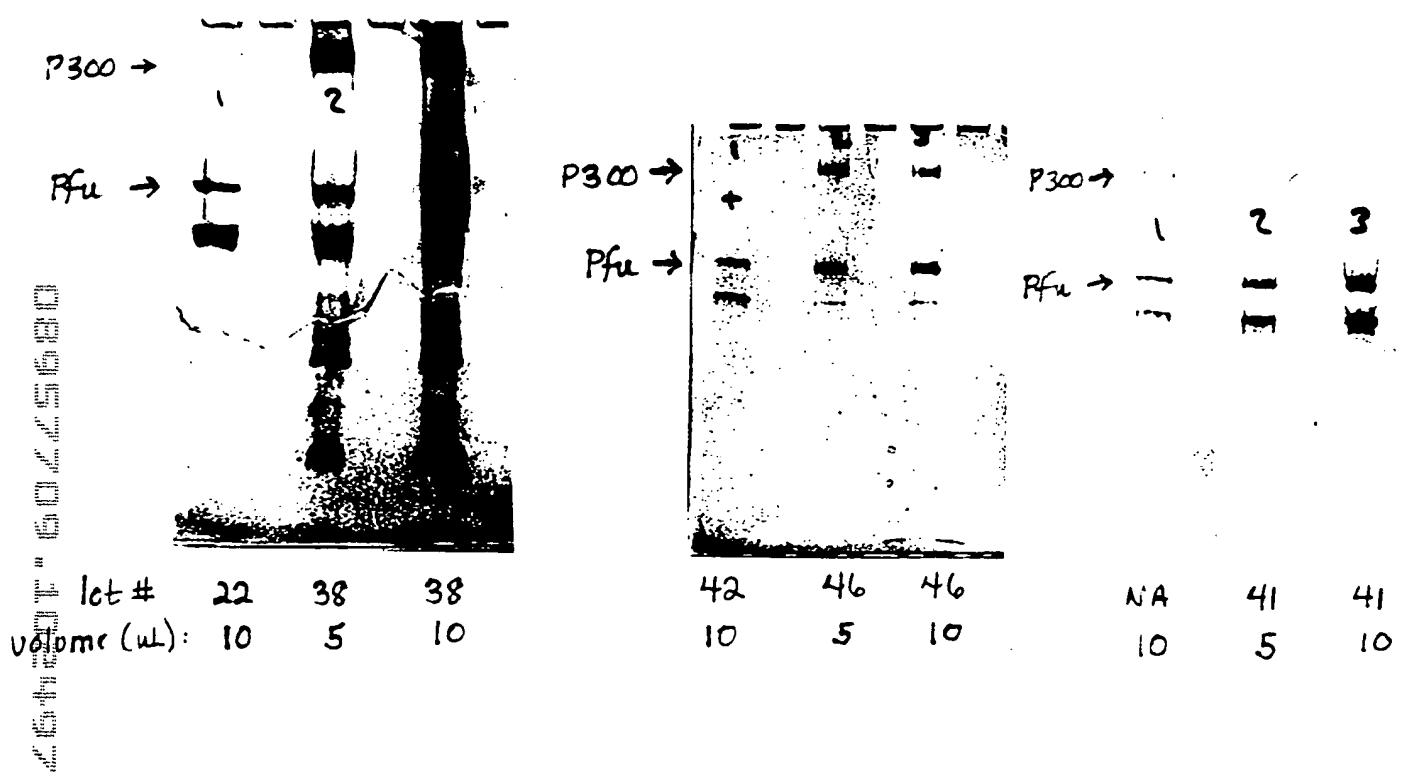


Figure 24

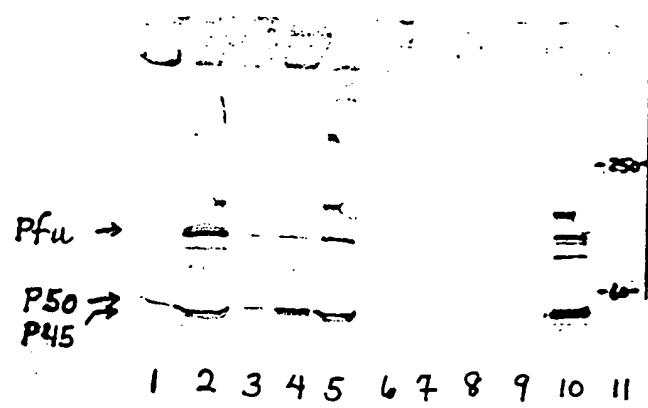


Figure 25

264204-602560

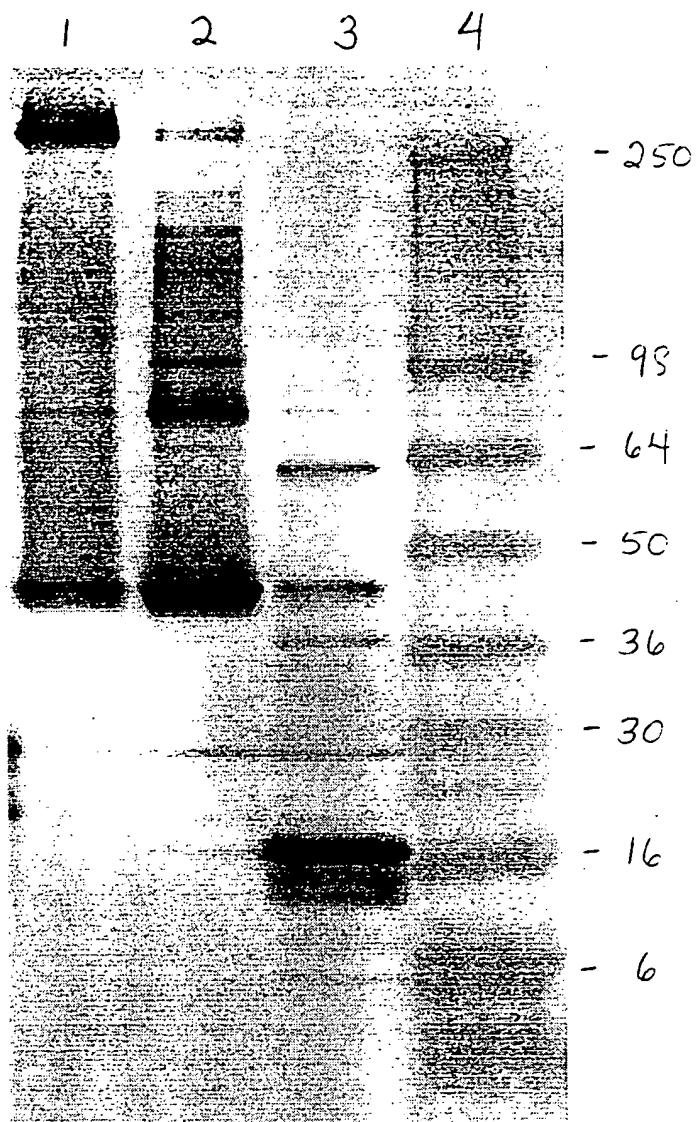


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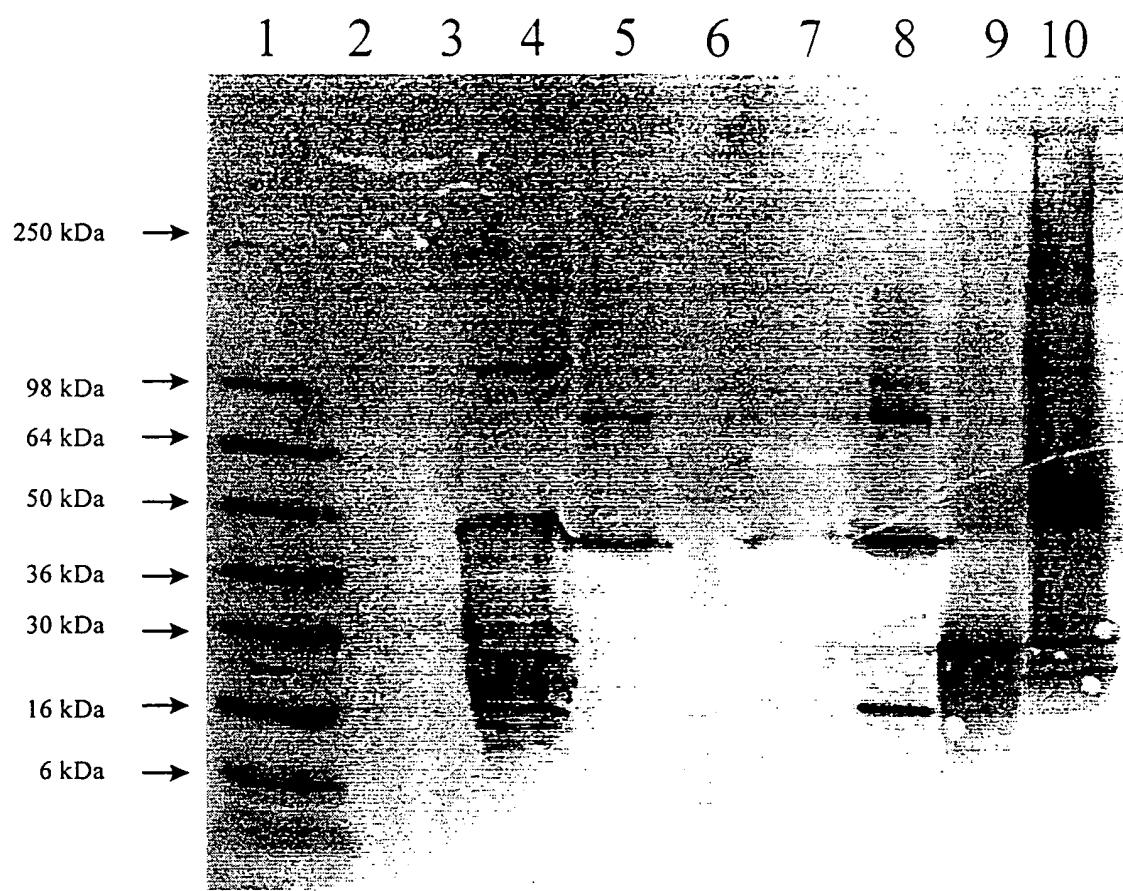


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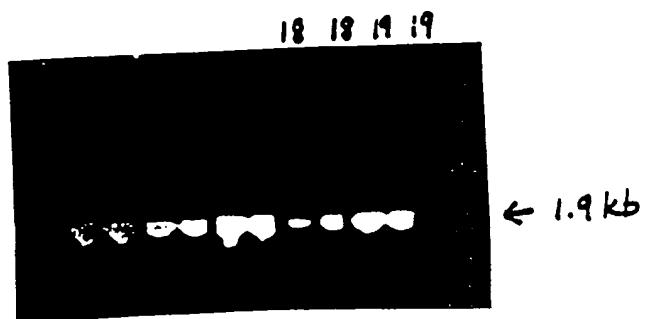


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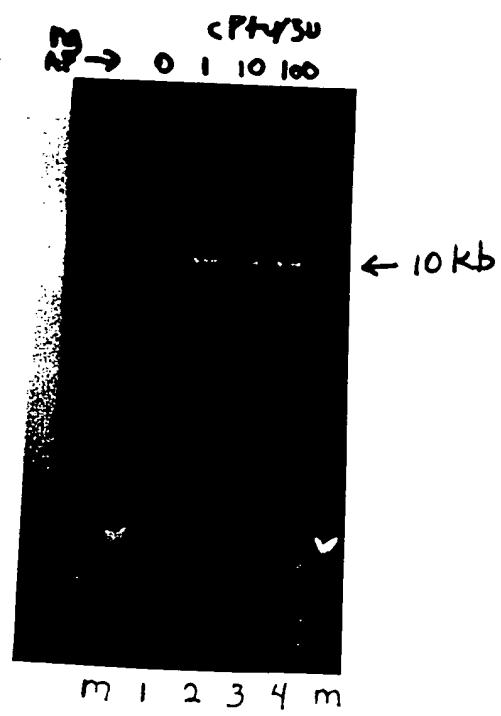


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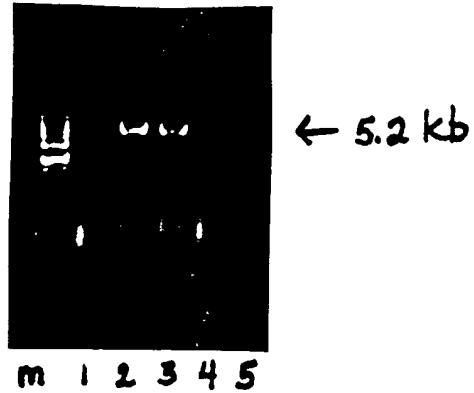


Figure 30

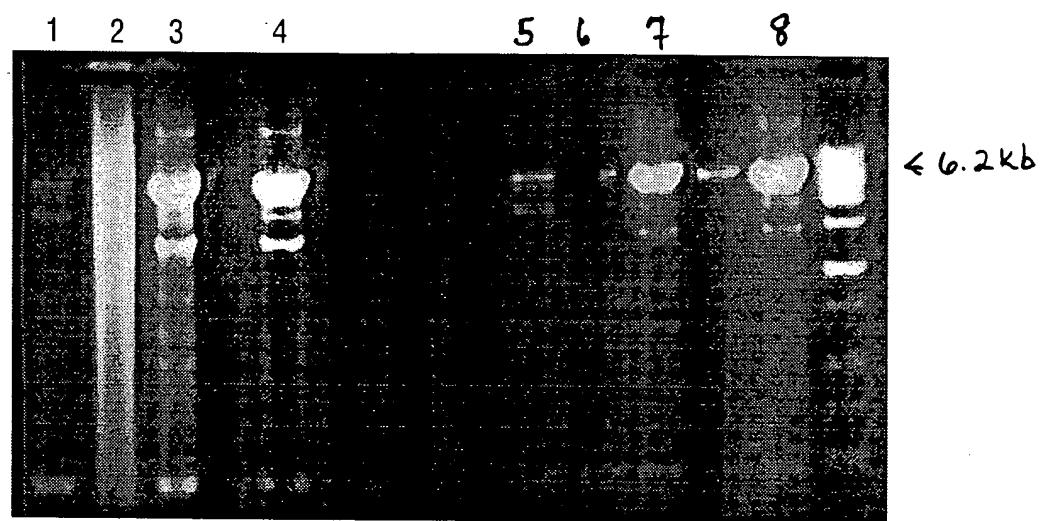


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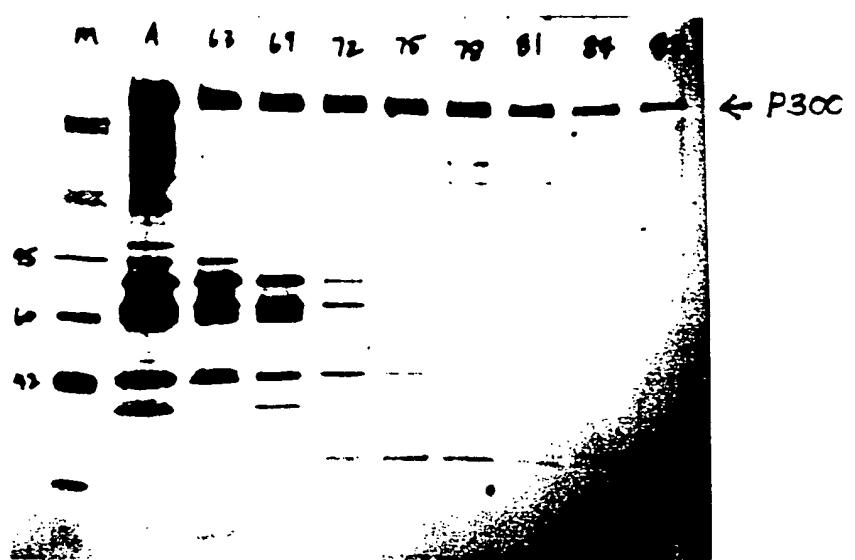
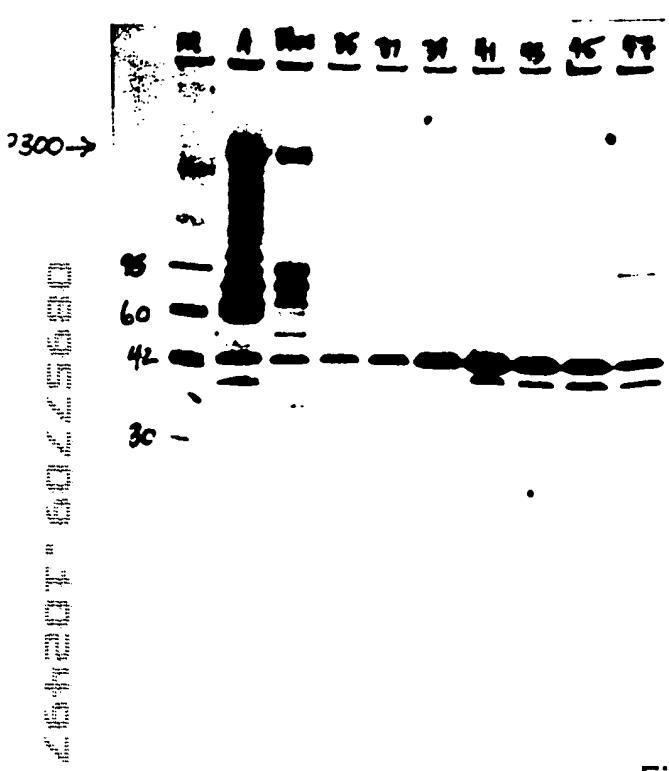


Figure 32

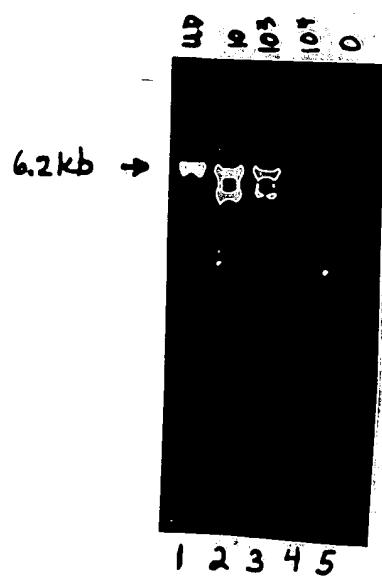


Figure 33

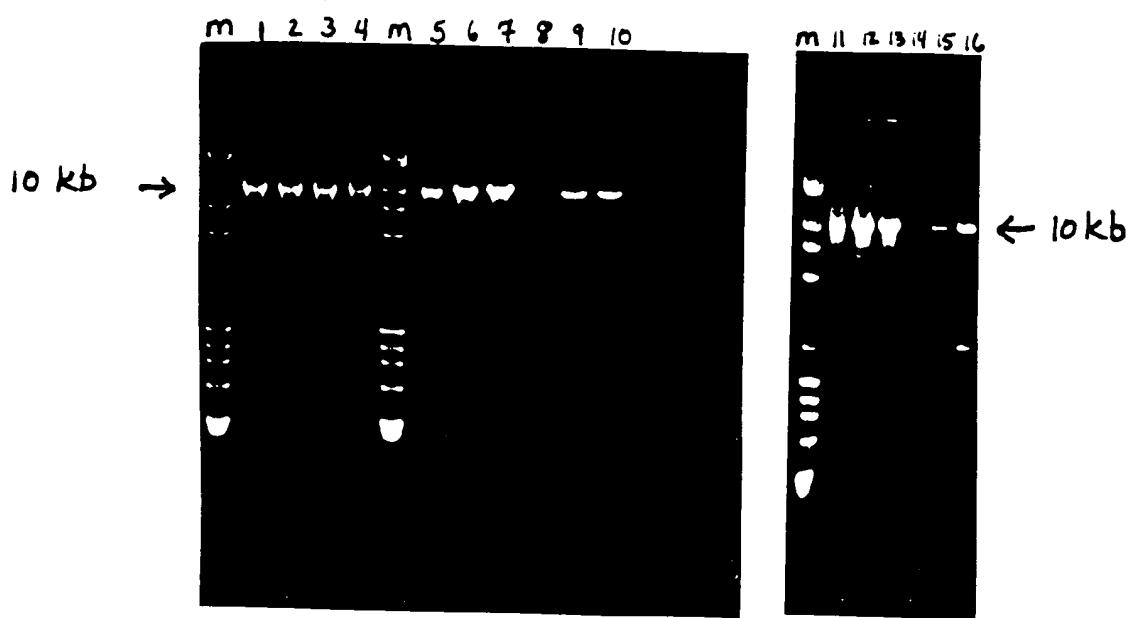


Figure 34

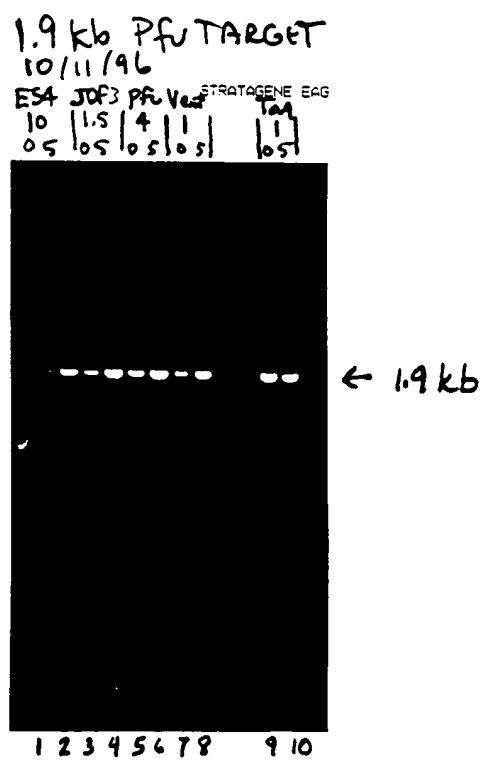


Figure 35

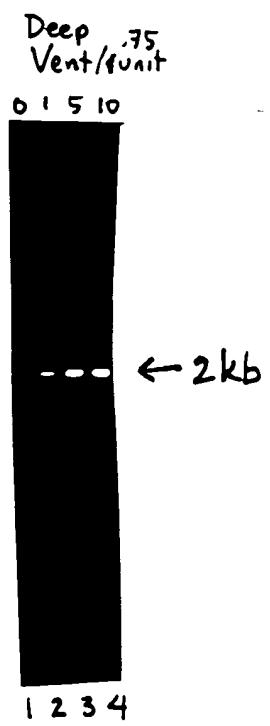


Figure 36

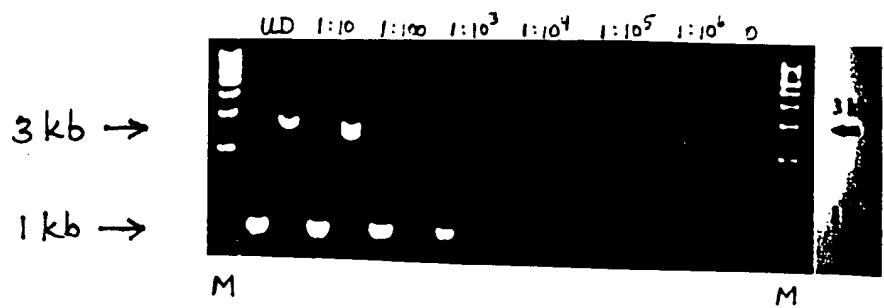


Figure 37

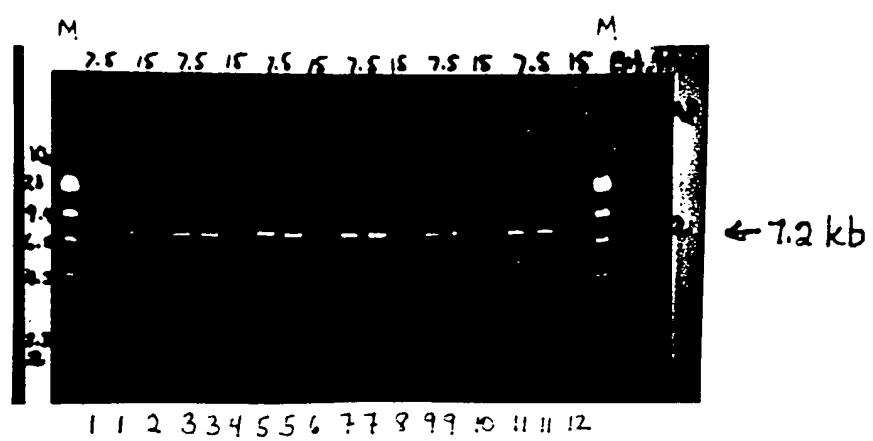


Figure 38

Pfu "PCR Enhancer" in QuikChange Mutagenesis

Linear Amplification Conditions				Transformation Results	
Pol.	Buffer	H.S. #75	Ampl. Prod.	#cfu	%mutants
nPfu (#38)	0	+		84	95
	1µl	±		47	87
	.1µl	+		154	97
	.01µl	++		632	95
	.001µl	+		484	94
cPfu (#24A)	0	+		94	89
	1µl	+		34	85
	.1µl	+		173	91
	.01µl	++		468	96
	.001µl	+		230	90

Figure 39

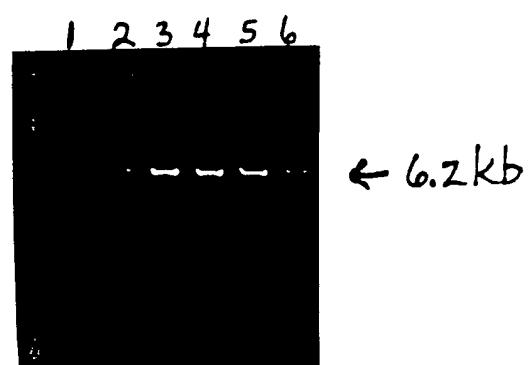


Figure 40

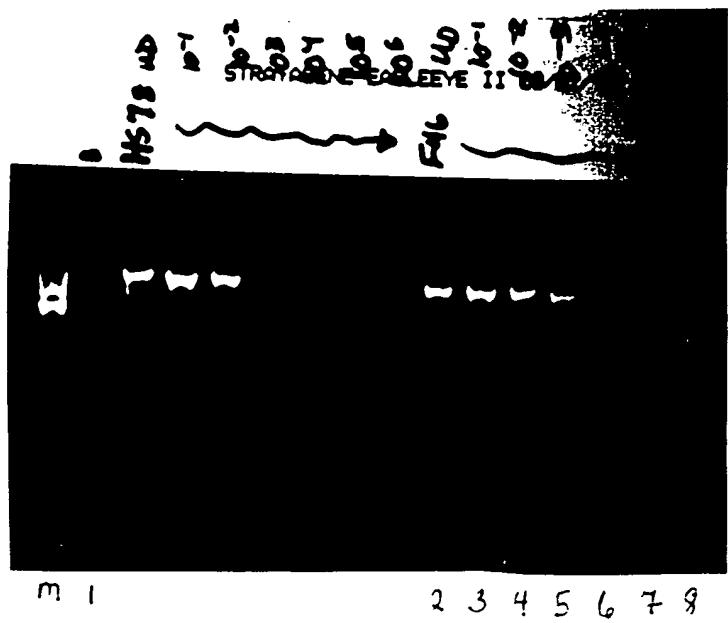


Figure 41



Figure 42

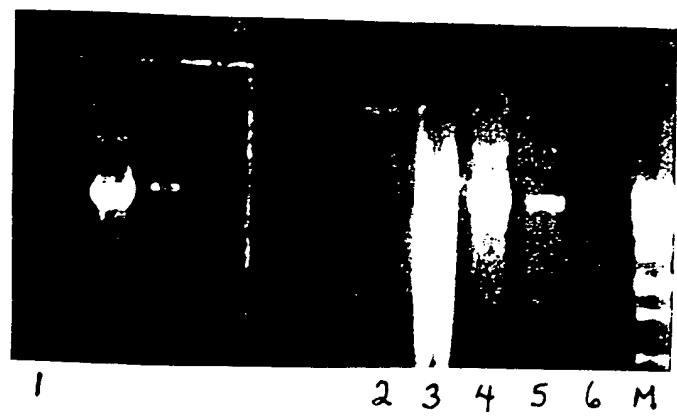


Figure 43

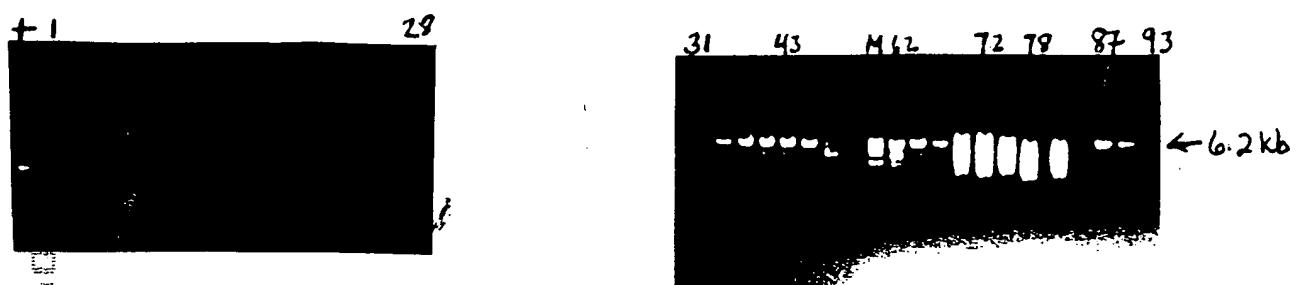


Figure 44